

## EAST Search History

| Ref # | Hits  | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|---|------------------|---------|------------------|
| L3    | 2     | ("20030227774").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2007/01/19 17:35 |
| L4    | 22314 | 362/241, "517", "545".ccls.   | US-PGPUB                                    | OR               | ON      | 2007/01/19 17:36 |
| L5    | 359   | 362/241,517,545.ccls.   | US-PGPUB                                    | OR               | ON      | 2007/01/19 17:36 |
| S2    | 11    | "electroluminscent diode"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:18 |
| S3    | 102   | "electroluminscent" and (car or auto\$6 or vehicle\$ or truck or van) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:19 |
| S4    | 3     | S3 and headlight  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:19 |
| S5    | 2     | S3 and head\$light  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:22 |
| S6    | 169   | head\$light and xenon and halogen                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:22 |
| S7    | 31    | head\$light WITH xenon WITH halogen                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:26 |
| S8    | 66    | S6 and "362"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:23 |
| S9    | 19    | S7 and "362"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:24 |
| S10   | 4     | ((("5704709") or ("20010019486") or ("6493096") or ("6504477"))).PN.  | US-PGPUB;<br>USPAT                          | OR               | OFF     | 2005/08/15 16:25 |
| S11   | 339   | head\$light WITH (xenon or halogen)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/08/15 16:27 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S12 | 115 | S11 and "362"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:27 |
| S13 | 100 | S12 and reflector  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:27 |
| S14 | 39  | S13 and ((hi or high) with (low))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:34 |
| S15 | 11  | S14 and mirror\$   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:34 |
| S16 | 1   | S15 and xenon  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:36 |
| S17 | 30  | S13 and xenon  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:38 |
| S18 | 29  | S13 and diode  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:38 |
| S19 | 21  | S18 and xenon  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:48 |
| S20 | 80  | 362/227.ccls. and (Diode or "LED\$")<br>and lamp   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 17:54 |
| S21 | 0   | S20 and head&light   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:50 |
| S22 | 2   | S20 and headlight  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/08/15 16:50 |
| S23 | 6   | ("20020084890"   "5347261"  <br>"5903103"   "6012824"   "6305818"<br>  "6394622").PN. OR ("6890086").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2005/08/15 16:51 |

## EAST Search History

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S24 | 12    | 362/240.ccls. and ((Diode or "LED\$") and lamp) and (head\$light or headlight)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/15 16:03 |
| S25 | 27    | ("1013947"   "2139587"   "2190035"   "2584292"   "2605384"   "3816739"   "4677533"   "4912334"   "4947291"   "4963798").PN. OR ("5984494").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/15 17:03 |
| S26 | 1     | ("5984494").PN.  | USPAT;<br>USOCR                             | OR | OFF | 2005/08/15 17:03 |
| S27 | 27    | ("1013947"   "2139587"   "2190035"   "2584292"   "2605384"   "3816739"   "4677533"   "4912334"   "4947291"   "4963798").PN. OR ("5984494").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/15 17:15 |
| S28 | 38    | ("0322496"   "2299008"   "3283136"   "3379869"   "3539801"   "3805049"   "4142801"   "4254453"   "4271408"   "4314318").PN. OR ("4677533").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/15 17:18 |
| S29 | 416   | "362"/\$.ccls. and (Diode or "LED\$") and lamp and (headlight or head\$light)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:26 |
| S30 | 52    | S29 and xenon  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/15 17:57 |
| S31 | 141   | S29 and halogen  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/15 18:03 |
| S32 | 24821 | koike.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/15 18:03 |
| S33 | 14    | koike.in. and "led array"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/15 18:04 |
| S34 | 4     | huang.in. and "replaceable led lamp capsule"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:32 |
| S35 | 2     | ("0166853").PN.  | USPAT;<br>USOCR                             | OR | OFF | 2005/08/16 14:32 |
| S36 | 0     | "axially mounted led"  | USPAT                                       | OR | ON  | 2005/08/16 14:33 |

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|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S37 | 2    | "axially mounted led"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:33 |
| S38 | 1044 | (axially with led)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:33 |
| S39 | 137  | (axially with mount\$6 with led)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:34 |
| S40 | 516  | (axially with mount\$6 with ("led" or diode or LED\$))                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:34 |
| S41 | 14   | S40 and martin  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 14:40 |
| S42 | 0    | ("20030227774").PN.   | USPAT;<br>USOCR                             | OR | OFF | 2005/08/16 14:40 |
| S43 | 1    | ("20030227774").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | OFF | 2005/08/16 14:40 |
| S44 | 339  | head\$light WITH (xenon or halogen)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 15:27 |
| S45 | 115  | S44 and "362"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 15:27 |
| S46 | 100  | S45 and reflector   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 15:29 |
| S47 | 39   | S46 and (diode or "LED" or "LEDs")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 15:38 |
| S48 | 175  | (diode or "LED" or "LEDs") with (halogen or xenon) and (headlight or head\$light) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 15:40 |
| S49 | 84   | S48 and "362"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 15:47 |

## EAST Search History

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S50 | 5     | (diode or "LED" or "LEDs") with (halogen or xenon) with dual and (headlight or head\$light)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/16 15:40 |
| S51 | 24    | ("2190035"   "3816739"   "4677533"   "4912334"   "4947291"   "4963798").PN. OR ("5685637").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/16 15:41 |
| S52 | 27    | ("1013947"   "2139587"   "2190035"   "2584292"   "2605384"   "3816739"   "4677533"   "4912334"   "4947291"   "4963798").PN. OR ("5984494").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/16 15:41 |
| S53 | 69    | ("1214583"   "1226325"   "1287611"   "1361557"   "1423911"   "1448352"   "1559930"   "1889936"   "2097222"   "2190035"   "2408643"   "3596078"   "3999193"   "4135230"   "4211955"   "4249234"   "4290095"   "4332445"   "4346329"   "4386391"   "4388673"   "4499525"   "4527223"   "4530034"   "4581686"   "4605993"   "4677533"   "4760504"   "4783725"   "4788633"   "4803605"   "4841417"   "4876416"   "4914555"   "4947291"   "4963798"   "4985813"   "5003440"   "5077644"   "5081568"   "5161879"   "5174648"   "5345370"   "5359779"   "5590951"   "5629105"   "5642932"   "5685637"   "5722755"   "5821697"   "5871272"   "5984494"   "6019482"   "6046572"   "6095661"   "6183105"   "6296367"   "6386730").PN. OR ("6841941").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/16 15:41 |
| S54 | 1     | ("5,685,637").PN.  | USPAT;<br>USOCR                             | OR | OFF | 2005/08/16 15:47 |
| S55 | 15    | ("5136483"   "5570951"   "5685637"   "5798911"   "5876113"   "5931572"   "6220722"   "6234648").PN. OR ("6406172").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/16 15:53 |
| S56 | 93    | "dual spectrum"  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/16 15:53 |
| S58 | 12286 | S56 and headlight or head\$light   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/16 15:53 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S59 | 3   | S56 and (headlight or head\$light)   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/08/16 16:31 |
| S60 | 428 | 362/241.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2006/01/31 11:12 |
| S61 | 567 | 362/517.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2006/01/31 11:13 |
| S62 | 499 | 362/545.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2006/01/31 11:13 |
| S63 | 2   | ("20030227774").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/01/30 19:20 |
| S64 | 412 | "362"/\$.ccls. and (auto\$7 or car or bus or truck or vehicle) and ((xenon or discharge) adj2 (lamp or bulb)) and ("LED" or diode) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/30 19:22 |
| S65 | 156 | "362"/\$.ccls. and (auto\$7 or car or bus or truck or vehicle) and ((xenon) adj2 (lamp or bulb)) and ("LED" or diode)              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/30 19:39 |
| S66 | 2   | ("6523976").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/01/30 19:25 |
| S67 | 71  | "362"/\$.ccls. and (airplane or jet or aircraft) and ((xenon) adj2 (lamp or bulb)) and ("LED" or diode)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/01/30 19:39 |
| S68 | 65  | 362/241.ccls.  | US-PGPUB                                    | OR | ON  | 2006/01/31 11:13 |
| S69 | 55  | 362/517.ccls.  | US-PGPUB                                    | OR | ON  | 2006/01/31 11:13 |
| S70 | 182 | 362/545.ccls.  | US-PGPUB                                    | OR | ON  | 2006/01/31 11:13 |
| S71 | 312 | 362/241,517,545.ccls.  | US-PGPUB                                    | OR | ON  | 2006/05/15 16:04 |
| S72 | 312 | 362/241,517,545.ccls. (dual near (halogen or discharge) near (diode or "LED"))   | US-PGPUB                                    | OR | ON  | 2006/05/15 16:05 |
| S73 | 0   | "362"/\$.ccls. and (dual near (halogen or discharge) near (diode or "LED"))  | US-PGPUB                                    | OR | ON  | 2006/05/15 16:05 |
| S74 | 5   | "362"/\$.ccls. and (dual WITH (halogen or discharge) WITH (diode or "LED"))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/15 16:07 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S75 | 11  | "362"/\$.ccls. and (dual SAME (halogen or discharge) WITH (diode or "LED"))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/15 16:07 |
| S76 | 22  | "362"/\$.ccls. and (dual SAME (halogen or discharge) SAME (diode or "LED"))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/15 16:10 |
| S77 | 2   | ("6888323").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/15 16:11 |
| S78 | 2   | ("20030227774").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/16 11:21 |
| S79 | 34  | ("1013947"   "2139587"   "2190035"   "2584292"   "2605384"   "3816739"   "4677533"   "4912334"   "4947291"   "4963798").PN. OR ("5984494").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 15:12 |
| S80 | 946 | 362/231.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 15:12 |
| S81 | 41  | S80 and (headlight or head\$light)   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 15:14 |
| S82 | 15  | S81 and (halogen or discharge)   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/17 10:26 |
| S83 | 2   | ("5,685,637").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/16 15:17 |
| S84 | 2   | ("5984494").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/16 15:17 |
| S85 | 35  | ("2190035"   "3816739"   "4677533"   "4912334"   "4947291"   "4963798").PN. OR ("5685637").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 16:15 |

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|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S86 | 34 | ("0516824"   "1732745"   "1961116"   "20020122309"   "20030142495"   "20040095777"   "2165211"   "4360862"   "4727289"   "4912334"   "4920301"   "4984142"   "5152601"   "5155666"   "5224773"   "5567036"   "5585783"   "5685637"   "5806965"   "5984494"   "6013985"   "6070994"   "6099148"   "6183100"   "6425678"   "6483254"   "6491417"   "6525668"   "6626557").PN. OR ("6948830").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 16:19 |
| S87 | 13 | ("2342639"   "4195281"   "5216328"   "5491383"   "5680098"   "5685637"   "5921660"   "5955945"   "6281631"   "6338647"   "6417624").PN. OR ("6756893").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 16:31 |
| S88 | 6  | ("3262224"   "5595438"   "5685637"   "6113433"   "6168282").PN. OR ("6733163").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 16:34 |
| S89 | 19 | ("2494058"   "3287551"   "3800136"   "4199708"   "4249234"   "4399492"   "4723200"   "4751624"   "4833574"   "4947297"   "5130910"   "5174648").PN. OR ("5595438").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/16 16:36 |
| S90 | 13 | ("2342639"   "4195281"   "5216328"   "5491383"   "5680098"   "5685637"   "5921660"   "5955945"   "6281631"   "6338647"   "6417624").PN. OR ("6756893").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2007/01/17 10:23 |
| S91 | 2  | ("6693551").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/17 10:31 |
| S92 | 2  | ("6962423").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/17 10:38 |
| S93 | 2  | ("20050094414").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/17 14:13 |
| S94 | 0  | ("20037104").PN.   | JPO   | OR | OFF | 2007/01/17 14:14 |